WEST Search History

DATE: Wednesday, April 02, 2003

Set Name	Query	Hit Count	Set Name
side by side			result set
	DB=USPT,PGPB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR		
L15	power-christine-a.in.	3	L15
L14	k5-5 and chemokine	1	L14
L13	powers-christine-a.in.	0	L13
L12	L10 and (@RLAD<19990115 or @PD<19990115)	9	L12
L11	L10 not L7	58	L11
L10	L9 and L3	63	L10
L9	(CC-CKR-4 or CKR4 or CMKBR4 or ChemR13 or HGCN:14099 or k5-5 or CCL17 or CTACK or ck.beta-13) and chemokine	106	L9
L8	L1 same antibody	38	L8
L7	L6 and (@RLAD<19990115 or @PD<19990115)	31	L7
L6	L5 and L3	122	L6
L5	CCR4 or TARC or MDC	1712	L5
L4	L3 and L1	81	L4
L3	atopic adj1 dermatitis	6430	L3
L2	Butcher-eugene-c.in.	12	L2
L1	CCR4	208	L1

END OF SEARCH HISTORY

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GeneCard for uncharacterized CCR4
GC03U990019

Approved UCL/HGNC/HUGO Human Gene Nomenclature database sy
CCR4 (chemokine (C-C motif) receptor 4)

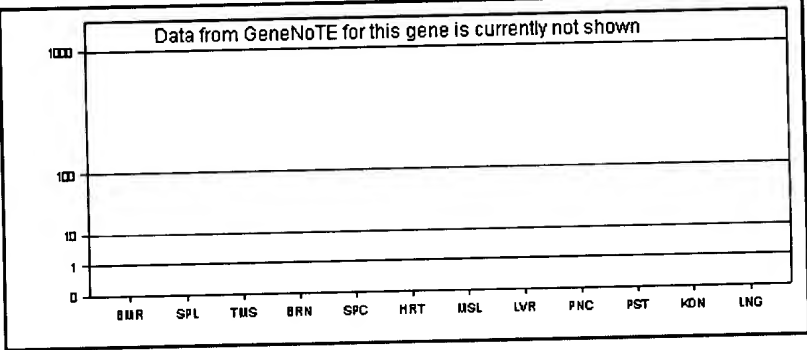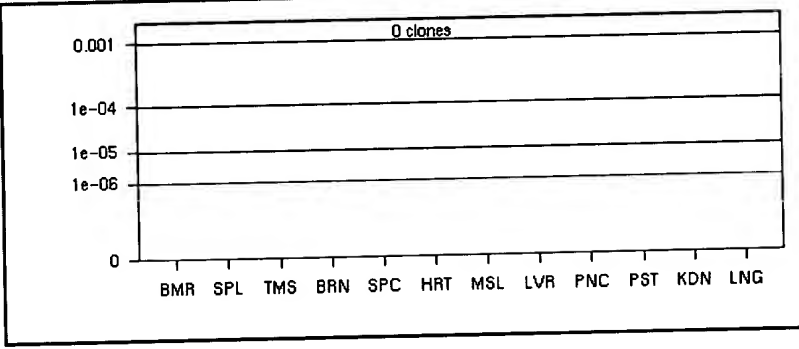|	
Aliases and Additional Descriptions (According to GDB, HUGO, and/or SWISS-PROT)	• CC-CKR-4 • CKR4 • CMKBR4 • ChemR13 • HGCN:14099 • k5-5 • chemokine (C-C motif) receptor 4 • C-C chemokine receptor type 4 (C-C CKR-4) (CC-CKR-4) (CCR-4) (CCR4) (K5-5).
Chromosomal Location (According to UDB/GeneLoc and/or HUGO, and/or LocusLink, Genomic Views According to UCSC and Ensembl)	*Chromosome:* **3** UDB/GeneLoc gene densities *LocusLink cytogenetic band:* **3p24** *Ensembl cytogenetic band:* *Unified DataBase (GeneLoc) location for GC03U990019:* (about GC identifiers) *Start:* **unknown** bp from *pter* *End:* **unknown** bp from *pter* *Size:* **unknown** bases *Orientation:* **unknown** strand *Unified DataBase (version 2.5) coordinate (from pter):* 34.316 mega bases *Genomic View:* UCSC Golden Path
Proteins (According to SWISS-PROT and/or MIPS)	CKR4_HUMAN • **Size**: 360 amino acids; 41402 Da • **Function**: HIGH AFFINITY RECEPTOR FOR THE C-C TYPE CHEMOKINES TARC/S MDC/SCYA22. THE ACTIVITY OF THIS RECEPTOR IS MEDIATED BY G(I) PROTEINS WHICH ACTIVAT PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM. CAN FUNCTION AS A CHEMOATTRA(RECEPTOR ON CIRCULATING MEMORY LYMPHOCYTES AND AS A CORECEPTOR FOR SOME PRIMARY HIV-2 CNS, COULD MEDIATE HIPPOCAMPAL-NEURON SURVIVAL. • **Subcellular location**: Integral membrane protein. • **Tissue specificity**: PREDOMINANTLY EXPRESSED IN THE THYMUS, IN PERIPHE LEUKOCYTES, INCLUDING T CELLS, MOSTLY CD4+ CELLS, AND BASOPHILS, AND IN PLATELE LEVELS, IN THE SPLEEN AND IN MONOCYTES. DETECTED ALSO IN MACROPHAGES, IL-2-ACTIV KILLER CELLS AND SKIN-HOMING MEMORY T CELLS, MOSTLY THE ONES EXPRESSING THE CUTAI LYMPHOCYTE ANTIGEN (CLA). EXPRESSED IN BRAIN MICROVASCULAR AND CORONARY ARTERY ENDOTHEL ○ Ptm: IN NATURAL KILLER CELLS, SCYA22 BINDING INDUCES PHOSPHORYLATI(UNDEFINED SER/THR RESIDUES, MOST PROBABLY BY BETA-ADRENERGIC RECEPTOR KINASES 1 AI • **Similarity**: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

REFSEQ proteins: NP_005499.1

Protein Domains/ Families/Ontologies (According to InterPro, GO, and/or BLOCKS)	**InterPro Domains and Families:** IPR000276; GPCR_Rhodpsn Graphical View of Domain Structure for SP Entry P51679 **Blocks protein family:** IPB000276 Rhodopsin-like GPCR superfamily
Sequences (GenBank/EMBL/DDBJ Accessions According to Unigene or GenBank, RefSeq According to LocusLink, Assembly According to MIPS and/or DOTS)	**REFSEQ mRNAs:** NM_005508.1 **Additional Gene/cDNA sequence:** AB023888.1 AB023889.1 AB023890.1 AB023891.1 AB023892.1 X85740 X85740.1 **DOTS assembly:** DT.40117006 **Unigene Cluster for CCR4:** (Build 155 Homo sapiens; Sep 23 2002) chemokine (C-C motif) receptor 4 Hs.184926 **Unigene Representative Sequence:** NM_005508
Expression in Human Tissues (According to proprietary W.I.S DNA array results (GeneNoTE), UniGene and/or SOURCE)	**CCR4 expression in normal human tissues based on proprietary W.I.S DNA array (Ge** *Data from GeneNoTE for this gene is currently not shown* ■ Immune System ■ Nervous System Muscle ■ Secretory Glands ■ Other □ Min-max range for **CCR4 expression in normal human tissues based on quantifying ESTs from various ti clusters** (Build 155 Homo sapiens). *0 clones* Tissue BMR Bone marrow SPL Spleen TMS Thymus BRN Brain SPC Spinal cord Heart Skeletal muscle LVR Liver PNC Pancreas PST Prostate KDN Kidney LNG Lung SOURCE GeneReport for Unigene cluster Hs.184926

Homologues:

Similar Genes in Other Organisms (According to MGD Oct 18 2002 , Stony Brook C.elegans-H.sapiens Alignment Database and/or euGenes)		gene	locus	description	%similarity to human
	mouse (MGD)	Ccr4	9 (61.00 cM)	chemokine (C-C motif) receptor 4	--
	C. elegans (Stony Brook)	C31A11.6	--	Caenorhabditis elegans cosmid C31A11, complete sequence	42,78%

SNPs/Variants (According to theNCBI SNP Database and to SWISS-PROT)	Variants: SWISS-PROT: CKR4_HUMAN NCBI SNPs: **All NCBI SNPs in CCR4**
Disorders & Mutations (in which this Gene is Involved, According to OMIM, SWISS-PROT, Genatlas, GeneClinics, HGMD, BCGD, and/or TGDB.)	--
Medical News (Possibly Related Articles in Doctor's Guide)	--
Research Articles (in PubMed)	• Molecular cloning and functional expression of a novel CC chemokine receptor cDNA f basophilic cell line. • The genes encoding the human CC-chemokine receptors CC-CKR1 to CC-CKR5 (CM clustered in the p21.3-p24 region of chromosome 3. • New variations of human CC-chemokine receptors CCR3 and CCR4. Search PubMed for CCR4 to find abstracts of **research articles** containing th
CCR4 in Other Genome Wide Resources: (According to GDB, LocusLink, euGenes, Ensembl and/or GeneLynx)	GDB: 677463 LocusLink: 1233 euGenes: HUgn1233 GeneLynx: 2211
CCR4 in General Databases, Limited Scope (According to HUGE)	--

CCR4 in Specialized Databases (According to ATLAS, GENATLAS, HORDE, IMGT, MTDB, LEIDEN and/or SWISS-PROT)	name	description
	Genatlas biochemistry entry for CCR4: chemokine CC,beta,receptor 4,with high affinity binding for basophil chemoattractant,G protein coupled receptor superfamily,specific receptor for thymus and activation-regulated chemokine	Links to **sequences**, linl and **papers**

Services (According to RZPD)	--

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GeneCard for gene CCL17 GC16P047843	Approved UCL/HGNC/HUGO Human Gene Nomenclature database symbol **CCL17 (chemokine (C-C motif) ligand 17)**

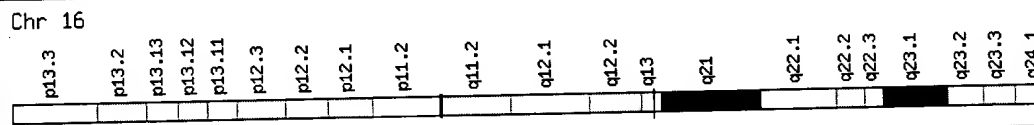|	
Aliases and Additional Descriptions (According to GDB, HUGO, and/or SWISS-PROT)	• A-152E5.3 • ABCD-2 • SCYA17 • **TARC** • Human mRNA for chemokine, complete cds • chemokine (C-C motif) ligand 17 • small inducible cytokine subfamily A (Cys-Cys), member 17 • Small inducible cytokine A17 precursor (CCL17) (Thymus and activation- regulated cht
Chromosomal Location (According to UDB/GeneLoc and/or HUGO, and/or LocusLink, Genomic Views According to UCSC and Ensembl)	*Chromosome:* **16** UDB/GeneLoc gene densities *LocusLink cytogenetic band:* **16q13** *Ensembl cytogenetic band:* **16q13** *Gene in genomic location: bands according to Ensembl, locations according to UDB/GeneL* Chr 16 p13.3 p13.2 p13.13 p13.12 p13.11 p12.3 p12.2 p12.1 p11.2 q11.2 q12.1 q12.2 q13 q21 q22.1 q22.2 q22.3 q23.1 q23.2 q23.3 q24.1 *Unified DataBase (GeneLoc) location for GC16P047843:* (about GC identifiers) *Start:* **47,843,154** bp from *pter* *End:* **47,845,335** bp from *pter* *Size:* **2,181** bases *Orientation:* **plus** strand *Unified DataBase (version 2.5) coordinate (from pter): --* *Genomic View:* UCSC Golden Path
Proteins (According to SWISS-PROT and/or MIPS)	SY17_HUMAN • **Size:** 94 amino acids; 10507 Da • **Function:** CHEMOTACTIC FACTOR FOR T LYMPHOCYTES BUT NOT MONOCYTE IN T CELL DEVELOPMENT IN THYMUS AND IN TRAFFICKING AND ACTIVATION (AND CCR8. • **Subcellular location:** Secreted. • **Tissue specificity:** EXPRESSED AT HIGH LEVELS IN THYMUS AND AT LOW LEVE SMALL INTESTINE. • **Induction:** BY PHYTOHEMAGGLUTININ (PHA) IN THE PERIPHERAL BLOOD MON(IN MONOCYTES. • **Similarity:** BELONGS TO THE INTERCRINE BETA FAMILY (SMALL CYTOKINE C-C **MIPS Pedant Viewer:** 13657 REFSEQ proteins: NP_002978.1

InterPro Domains and Families:

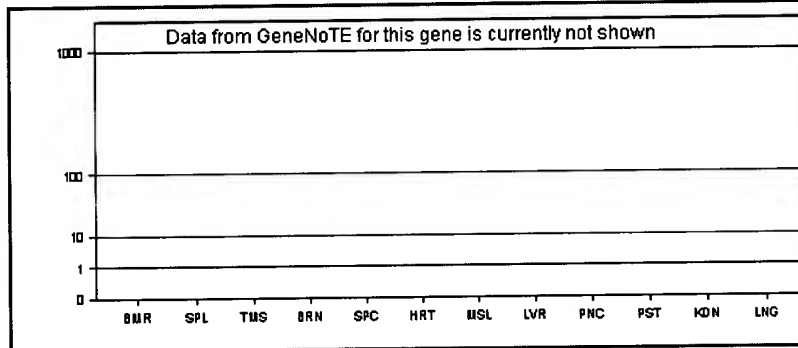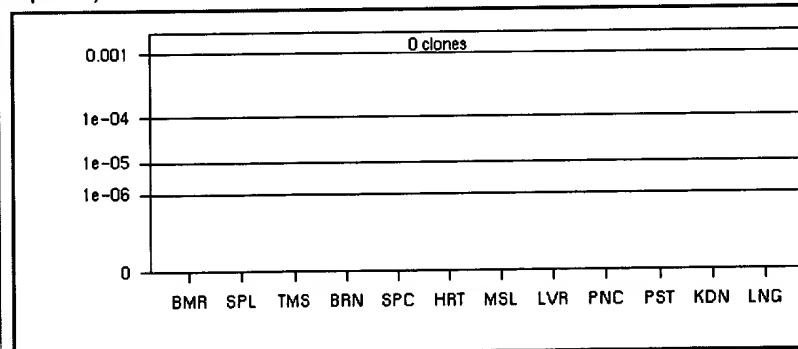|	
Protein Domains/ Families/Ontologies (According to InterPro, GO, and/or BLOCKS)	IPR000827; CC_chemkine_sml IPR001811; Chemokine_IL8 Graphical View of Domain Structure for SP Entry Q92583 **Gene Ontology (GO) terms (tree view):** GO:0006935 GO:0007267 GO:0005576 GO:0006954 GO:0006955 GO:0007186 GO:0007275 GO:0008009 Blocks protein family: IPB000827 Small cytokines (intercrine/chemokine)
Sequences (GenBank/EMBL/DDBJ Accessions According to Unigene or GenBank, RefSeq According to LocusLink, Assembly According to MIPS and/or DOTS)	**REFSEQ mRNAs:** NM_002987.2 **Additional Gene/cDNA sequence:** AC004382.1 BE061171.1 D43767 D43767.1 **MIPS assembly:**H9978S1 **Unigene Cluster for CCL17:** (Build 155 Homo sapiens; Sep 23 2002) chemokine (C-C motif) ligand 17 Hs.66742 Unigene Representative Sequence: NM_002987
Expression in Human Tissues (According to proprietary W.I.S DNA array results (GeneNoTE), UniGene and/or SOURCE)	**CCL17 expression in normal human tissues based on proprietary W.I.S DNA array (Ge** **CCL17 expression in normal human tissues based on quantifying ESTs from various** sapiens). SOURCE GeneReport for Unigene cluster Hs.66742

Similar Genes in Other Organisms (According to MGD Oct 16 2002 , Stony Brook C.elegans-H.sapiens Alignment Database and/or euGenes)	**Homologues:**					
		gene	locus	description	%similarity to human	GenBank accessi(
	mouse (MGD)	Ccl17	8 (45.00 cM)	chemokine (C-C motif) ligand 17	--	AF125570 AF125! AK007663 BC028

SNPs/Variants (According to theNCBI SNP Database and to SWISS-PROT)

Variants: SWISS-PROT: SY17_HUMAN

NCBI SNPs: 3 selected, not withdrawn, single nucleotide mutations are shown here.

Genomic Data							
SNP ID	Contig Accession	Pos in Contig	Str	5' Flanking Sequence*	3' Flanking Sequence*	Validation	DN. Ch;
rs223828	NT_010463.10	637161	+	TCTGCCTGGT	GACTCCCCGA	by-frequency	C/I
rs223827	NT_010463.10	635754	+	GTGCGAGGCC	ACCAAGGGGG	no-info	T/(
rs1423768	NT_010463.10	635973	-	CCACCCCTCA	CAAGGGCTGC	no-info	G/I

* Lower case letters indicate repetitive or low-complexity sequence

All NCBI SNPs in CCL17

Disorders & Mutations (in which this Gene is Involved, According to OMIM, SWISS-PROT, Genatlas, GeneClinics, HGMD, BCGD, and/or TGDB.)	--

Medical News (Possibly Related Articles in Doctor's Guide)	--

Research Articles (in PubMed)	• Genome duplications and other features in 12 Mb of DNA sequence from human chror • Assignment of the human CC chemokine gene **TARC** (SCYA17) to chromosome 16q1 • Molecular cloning of a novel T cell-directed CC chemokine expressed in thymus by sig [Search PubMed for CCL17] to find abstracts of **research articles** containing 1

CCL17 in Other Genome Wide Resources: (According to GDB, LocusLink, euGenes, Ensembl and/or GeneLynx)	GDB: 4562685 LocusLink: 6361 euGenes: HUgn6361 Ensembl: ENSG0000010:

CCL17 in General Databases, Limited Scope (According to HUGE)	--

CCL17 in Specialized Databases (According to ATLAS, GENATLAS, HORDE, IMGT, MTDB, LEIDEN and/or SWISS-PROT)	--

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